

List of subjects for “Rocket systems and astronautics” field of study

1. Professional foreign language
2. Research basics, experiment organization and planning
3. Innovative projects management
4. Effective communication in groups
5. Mechanical systems dynamics
6. CAD
7. Theory and methods of technical systems design engineering
8. Mathematical modeling of technical facilities
9. Aircraft flight dynamics
10. Composite construction technology
11. Energy units for aircrafts
12. Rocket structural mechanics
13. Calculation of aircraft construction elements
14. Testing and reliability of aerospace equipment
15. Nanotechnology appliance in rocket engineering
16. Theory and calculation of rocket-propellant engines
17. Design and calculation of solid-propellant engines
18. Automatics and control of rocket engines
19. Rockets with solid-propellant engines
20. Education internship (internship for getting primary professional skills, including skills for research)
21. Production internship (internship for getting professional skills and experience in the field of study)
22. Production internship (pre-diploma practice)
23. State exams